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**(57) Abstract:** A high security cylinder lock (1) and key (2) combination comprising a cylindrical shell (140), a key plug (130) which is rotatably mounted in the shell (140), a longitudinal key slot (100) in the key plug, and at least one locking tumbler assembly cooperating with a key being inserted into the lock. The locking tumbler assembly comprises a pair of independently movable tumbler segments (113, 114) which are positionable in different elevational positions in a common cavity.

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